

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101578,402
Source: TTTUP
Date Processed by STIC: 5-18-06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 101578, 402

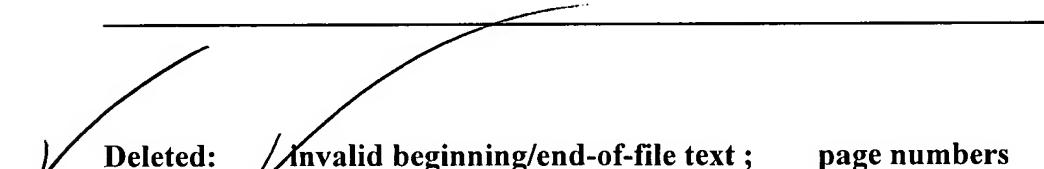
CRF Edit Date: 5-18-06
Edited by: KL

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers



— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

— Other:



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,402

DATE: 05/18/2006
TIME: 09:57:12

Input Set : A:\PTO.kd.txt
Output Set: N:\CRF4\05182006\J578402.raw

4 <110> APPLICANT: Laurie H. Glimcher and Mohamed OUKKA
6 <120> TITLE OF INVENTION: METHODS FOR MODULATING AN IMMUNE
7 RESPONSE BY MODULATING KRC ACTIVITY
11 <130> FILE REFERENCE: HUI-045CP2US
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/578,402
C--> 13 <141> CURRENT FILING DATE: 2006-05-03
13 <150> PRIOR APPLICATION NUMBER: PCT/US2004/036641
14 <151> PRIOR FILING DATE: 2004-11-03
16 <150> PRIOR APPLICATION NUMBER: 10/701,401
17 <151> PRIOR FILING DATE: 2003-11-03
19 <150> PRIOR APPLICATION NUMBER: PCT/US2002/14166
20 <151> PRIOR FILING DATE: 2002-05-03
22 <150> PRIOR APPLICATION NUMBER: 60/288,369
23 <151> PRIOR FILING DATE: 2003-05-01
25 <160> NUMBER OF SEQ ID NOS: 8
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 8546
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (889)...(8106)
38 <400> SEQUENCE: 1
39 acacctgcgc gccggataaa ttcatgaaga aggggctgga tccgtgggtc agagaacaca 60
40 ggaccagtt gccatcccaa ggccgaaggc ctccctccaa cacagttctc caagctctag 120
41 aaatctctga cacatcttga ccatgagacc acggctggtt ttggcagga ttggaggcac 180
42 aaacccagca gcctcaacct agttcatgga ggagcctcgc ggggtcctgg ccaagcaagc 240
43 ccgcctct ggtggaaaga gcggcgccata ggtggagggt ggctgccgta ggagtggaca 300
44 tgaatgctgg ctttcagaga gaacagcgtt tcagtttgg tcatcggaaag tggtccttc 360
45 agcacagaag aagagcgtga ttctcctcc aaggccgtt atctccaacc cagaactaaa 420
46 ggggagaaga gccaccccca gcatccagcg tggcatctct tggccagga ccaggatga 480
47 ctggccatg gacacagatg tctccaaacct tcaaccgtt gcatagcaca cgggggactc 540
48 gtggggccca cctgccactg ccagctgaaa taatacatg gcaatactga catccttc 600
49 gacgtttcc cgacagacat tcaggcagaa agtgctggt cgtttctgt ctgcaaagta 660
50 gaggccatc gtcaccaat agaatagcgt gggccctgat gacctgctcc gagtccactc 720
51 acagccagtg acacttgcaa aaaactccca aagccgtt gggtttgct cccacagctc 780
52 ttgaccaatg tggccaaagc tggacaccc tctgggacac tgggattatt cataaatgca 840
53 gccggccctg actctccctg aatagcatct gaagtcttg tgaaggc atg gat cct 897
54 Met Asp Pro
55 1
57 gaa caa agt gtc aag ggc acc aag aag gct gag gga agt ccc cgg aag 945
58 Glu Gln Ser Val Lys Gly Thr Lys Lys Ala Glu Gly Ser Pro Arg Lys

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Input Set : A:\PTO.kd.txt
Output Set: N:\CRF4\05182006\J578402.raw

59	5	10	15		
62	cgg ctg acc aaa gga gag gcc att cag acc agt gtt tct tcc agc gtc	993			
63	Arg Leu Thr Lys Gly Glu Ala Ile Gln Thr Ser Val Ser Ser Val				
64	20	25	30	35	
66	cca tac cca ggc agc ggc aca gct ccg acc caa gag agc ccc gcc caa	1041			
67	Pro Tyr Pro Gly Ser Gly Thr Ala Pro Thr Gln Glu Ser Pro Ala Gln				
68	40	45	50		
70	gag ctc tta gcc ccg cag ccc ttc ccg ggc ccc tca tca gtt ctt agg	1089			
71	Glu Leu Leu Ala Pro Gln Pro Phe Pro Gly Pro Ser Ser Val Leu Arg				
72	55	60	65		
74	gaa ggc tct cag gag aaa acg ggc cag cag cag aag ccc ccc aaa agg	1137			
75	Glu Gly Ser Gln Glu Lys Thr Gly Gln Gln Lys Pro Pro Lys Arg				
76	70	75	80		
78	ccc ccc atc gaa gca tcc gtc cac atc tca cac gtt ccg cag cac cct	1185			
79	Pro Pro Ile Glu Ala Ser Val His Ile Ser His Val Pro Gln His Pro				
80	85	90	95		
82	ctg aca cca gca ttc atg tcg cct ggc aaa cct gag cat ctc ctg gag	1233			
83	Leu Thr Pro Ala Phe Met Ser Pro Gly Lys Pro Glu His Leu Leu Glu				
84	100	105	110	115	
86	ggg tcc aca tgg caa ctg gtt agc ccc atg aga ctc gga ccc tct ggc	1281			
87	Gly Ser Thr Trp Gln Leu Val Ser Pro Met Arg Leu Gly Pro Ser Gly				
88	120	125	130		
90	tcc ttg ctg gcc cct ggg ctc cat cct cag agc cag ctc ctt cct tcc	1329			
91	Ser Leu Leu Ala Pro Gly Leu His Pro Gln Ser Gln Leu Leu Pro Ser				
92	135	140	145		
94	cac gct tcc atc att ccc ccc gag gac ctt cct gga gtc ccc aaa gtc	1377			
95	His Ala Ser Ile Ile Pro Pro Glu Asp Leu Pro Gly Val Pro Lys Val				
96	150	155	160		
98	tcc gtg cct cgt cct tcc cag gtc tcc ttg aag ccc aca gaa gag gca	1425			
99	Phe Val Pro Arg Pro Ser Gln Val Ser Leu Lys Pro Thr Glu Glu Ala				
100	165	170	175		
102	cac aag aag gag agg aag ccc cag aag cca ggc aag tac atc tgc cag	1473			
103	His Lys Lys Glu Arg Lys Pro Gln Lys Pro Gly Lys Tyr Ile Cys Gln				
104	180	185	190	195	
106	tac tgc agc cgg ccc tgt gcc aag ccc agc gtg ctc cag aag cac att	1521			
107	Tyr Cys Ser Arg Pro Cys Ala Lys Pro Ser Val Leu Gln Lys His Ile				
108	200	205	210		
110	cgc tca cac aca ggt gag agg ccc tac ccc tgc ggc ccc tgt ggc ttc	1569			
111	Arg Ser His Thr Gly Glu Arg Pro Tyr Pro Cys Gly Pro Cys Gly Phe				
112	215	220	225		
114	tcc ttc aag acc aag agt aat ctc tac aag cac agg aag tcc cat gcc	1617			
115	Ser Phe Lys Thr Lys Ser Asn Leu Tyr Lys His Arg Lys Ser His Ala				
116	230	235	240		
118	cac cgc atc aaa gca ggc ctg gcc tca ggc atg ggt ggc gag atg tac	1665			
119	His Arg Ile Lys Ala Gly Leu Ala Ser Gly Met Gly Gly Glu Met Tyr				
120	245	250	255		
122	cca cat ggg ctg gag atg gag cgg atc cct ggg gaa gag ttt gag gag	1713			
123	Pro His Gly Leu Glu Met Glu Arg Ile Pro Gly Glu Glu Phe Glu Glu				
124	260	265	270	275	

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126 ccc act gag gga gaa agc aca gat tct gaa gag gag act agt gcc acc	1761
127 Pro Thr Glu Gly Glu Ser Thr Asp Ser Glu Glu Glu Thr Ser Ala Thr	
128 280 285 290	
130 tct ggt cac cct gca gag ctc tcc cca aga ccc aag cag ccc ctt ctc	1809
131 Ser Gly His Pro Ala Glu Leu Ser Pro Arg Pro Lys Gln Pro Leu Leu	
132 295 300 305	
134 tcc agc ggg cta tac agc tct ggg agc cac agt tcc agc cac gaa cgc	1857
135 Ser Ser Gly Leu Tyr Ser Ser Gly Ser His Ser Ser His Glu Arg	
136 310 315 320	
138 tgt tcc ctg tcc cag tcc agc aca gcc cag tca ctc gaa gac ccc cct	1905
139 Cys Ser Leu Ser Gln Ser Ser Thr Ala Gln Ser Leu Glu Asp Pro Pro	
140 325 330 335	
142 cca ttt gtg gaa ccc tca tct gag cac ccc ctg agc cat aaa cct gaa	1953
143 Pro Phe Val Glu Pro Ser Ser Glu His Pro Leu Ser His Lys Pro Glu	
144 340 345 350 355	
146 gac acc cac acg att aag cag aag ctg gcc ctc cgc tta agc gag agg	2001
147 Asp Thr His Thr Ile Lys Gln Lys Leu Ala Leu Arg Leu Ser Glu Arg	
148 360 365 370	
150 aag aag gtg atc gat gag cag gcg ttt ctg agc cca ggc agc aaa ggg	2049
151 Lys Lys Val Ile Asp Glu Gln Ala Phe Leu Ser Pro Gly Ser Lys Gly	
152 375 380 385	
154 agt act gag tct ggg tat ttc tct cgc tcc gag agt gca gag cag cag	2097
155 Ser Thr Glu Ser Gly Tyr Phe Ser Arg Ser Glu Ser Ala Glu Gln Gln	
156 390 395 400	
158 gtc agc ccc cca aac acc aac gcc aag tcc tac gct gag atc atc ttt	2145
159 Val Ser Pro Pro Asn Thr Asn Ala Lys Ser Tyr Ala Glu Ile Ile Phe	
160 405 410 415	
162 ggc aag tgt ggg cga ata gga cag cgg acc gcc atg ctg aca gcc acc	2193
163 Gly Lys Cys Gly Arg Ile Gly Gln Arg Thr Ala Met Leu Thr Ala Thr	
164 420 425 430 435	
166 tcc acc cag ccc ctc ctg ccc ctc tcc acc gaa gac aag ccc agc ctg	2241
167 Ser Thr Gln Pro Leu Leu Pro Leu Ser Thr Glu Asp Lys Pro Ser Leu	
168 440 445 450	
170 gtg cct ttg tct gta ccc cgg acg cag gtg atc gag cac atc acg aag	2289
171 Val Pro Leu Ser Val Pro Arg Thr Gln Val Ile Glu His Ile Thr Lys	
172 455 460 465	
174 ctc atc acc atc aac gag gcc gtg gtg gac acc agt gag atc gac agc	2337
175 Leu Ile Thr Ile Asn Glu Ala Val Val Asp Thr Ser Glu Ile Asp Ser	
176 470 475 480	
180 gtg aag cca agg cgg agc tca ctg tcc agg cgc agc agc atg gag tcc	2385
181 Val Lys Pro Arg Arg Ser Ser Leu Ser Arg Arg Ser Ser Met Glu Ser	
182 485 490 495	
184 cca aaa tcc agc ctc tac cgg gag ccc ctg tca tcc cac agt gag aaa	2433
185 Pro Lys Ser Ser Leu Tyr Arg Glu Pro Leu Ser Ser His Ser Glu Lys	
186 500 505 510 515	
188 acc aag cct gaa caa tca ctg ctg agc ctc cag cac ccg ccc agt acc	2481
189 Thr Lys Pro Glu Gln Ser Leu Leu Ser Leu Gln His Pro Pro Ser Thr	
190 520 525 530	
192 gcc ccc cct gtg cct ctc ctg aga agc cac tca atg cct tct gcc gcc	2529

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Input Set : A:\PTO.kd.txt
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193	Ala	Pro	Pro	Val	Pro	Leu	Leu	Arg	Ser	His	Ser	Met	Pro	Ser	Ala	Ala	
194				535				540				545					
196	tgc	act	atc	agc	acc	ccc	cac	cac	ccc	tcc	cga	ggt	agc	tac	tcc	tcc	2577
197	Cys	Thr	Ile	Ser	Thr	Pro	His	His	Pro	Phe	Arg	Gly	Ser	Tyr	Ser	Phe	
198				550				555				560					
200	gat	gac	cat	atc	acc	gac	tcc	gaa	gcc	ctg	agc	cgc	agc	agt	cac	gtg	2625
201	Asp	Asp	His	Ile	Thr	Asp	Ser	Glu	Ala	Leu	Ser	Arg	Ser	Ser	His	Val	
202				565				570				575					
204	ttt	acc	tcc	cac	ccc	cgg	atg	ctg	aag	ccg	cag	ccg	gca	atc	gaa	tta	2673
205	Phe	Thr	Ser	His	Pro	Arg	Met	Leu	Lys	Pro	Gln	Pro	Ala	Ile	Glu	Leu	
206	580				585				590				595				
208	cct	ttg	gga	ggg	gaa	tac	agt	tct	gag	gag	cct	ggc	cca	agc	agc	aaa	2721
209	Pro	Leu	Gly	Gly	Glu	Tyr	Ser	Ser	Glu	Glu	Pro	Gly	Pro	Ser	Ser	Lys	
210					600				605				610				
212	gac	aca	gcc	tcc	aag	ccc	tcg	gac	gaa	gtg	gaa	ccc	aag	gaa	agc	gag	2769
213	Asp	Thr	Ala	Ser	Lys	Pro	Ser	Asp	Glu	Val	Glu	Pro	Lys	Glu	Ser	Glu	
214					615				620				625				
216	ctt	acc	aaa	aag	acc	aag	aag	ggt	ttg	aaa	aca	aaa	ggg	gtg	atc	tac	2817
217	Leu	Thr	Lys	Lys	Thr	Lys	Gly	Leu	Lys	Thr	Lys	Gly	Val	Ile	Tyr		
218					630				635				640				
220	gaa	tgt	aac	ata	tgt	ggt	gct	cg	tac	aag	aaa	agg	gat	aac	tac	gaa	2865
221	Glu	Cys	Asn	Ile	Cys	Gly	Ala	Arg	Tyr	Lys	Lys	Arg	Asp	Asn	Tyr	Glu	
222					645				650				655				
224	gcc	cac	aaa	aaa	tac	tac	tgc	tca	gag	ctt	cag	atc	gca	aag	ccc	atc	2913
225	Ala	His	Lys	Lys	Tyr	Tyr	Cys	Ser	Glu	Leu	Gln	Ile	Ala	Lys	Pro	Ile	
226					660				665				670				675
228	tct	gca	ggc	acc	cac	aca	tct	cca	gaa	gct	gaa	aag	agt	cag	att	gag	2961
229	Ser	Ala	Gly	Thr	His	Thr	Ser	Pro	Glu	Ala	Glu	Lys	Ser	Gln	Ile	Glu	
230					680				685				690				
232	cat	gag	ccg	tgg	tcc	caa	atg	atg	cat	aaa	ctg	gga	acc	acc	ctg		3009
233	His	Glu	Pro	Trp	Ser	Gln	Met	Met	His	Tyr	Lys	Leu	Gly	Thr	Thr	Leu	
234					695				700				705				
236	gaa	ctc	act	cca	ctg	agg	aag	agg	aaa	gag	aag	agc	ctt	ggg	gac		3057
237	Glu	Leu	Thr	Pro	Leu	Arg	Lys	Arg	Arg	Lys	Glu	Lys	Ser	Leu	Gly	Asp	
238					710				715				720				
240	gag	gaa	gag	cca	cct	gcc	ttt	gag	tcc	aca	aaa	agt	cag	ttt	ggc	agc	3105
241	Glu	Glu	Glu	Pro	Pro	Ala	Phe	Glu	Ser	Thr	Lys	Ser	Gln	Phe	Gly	Ser	
242					725				730				735				
244	ccc	ggg	cca	tct	gat	gct	gct	cg	aac	ctt	ccc	ctg	gag	tcc	acc	aag	3153
245	Pro	Gly	Pro	Ser	Asp	Ala	Ala	Arg	Asn	Leu	Pro	Leu	Glu	Ser	Thr	Lys	
246					740				745				750				755
248	tca	cca	gca	gaa	cca	agt	aaa	tca	gtg	ccc	tcc	ttg	gag	gga	ccc	acg	3201
249	Ser	Pro	Ala	Glu	Pro	Ser	Lys	Ser	Val	Pro	Ser	Leu	Glu	Gly	Pro	Thr	
250					760				765				770				
252	ggc	ttc	cag	cca	agg	act	ccc	aag	cca	ggg	tcc	ggt	tca	gaa	tca	ggg	3249
253	Gly	Phe	Gln	Pro	Arg	Thr	Pro	Lys	Pro	Gly	Ser	Gly	Ser	Glu	Ser	Gly	
254					775				780				785				
256	aag	gag	agg	aga	aca	acg	tcc	aaa	gaa	att	tct	gtc	atc	cag	cac	acc	3297
257	Lys	Glu	Arg	Arg	Thr	Thr	Ser	Lys	Glu	Ile	Ser	Val	Ile	Gln	His	Thr	

RAW SEQUENCE LISTING
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DATE: 05/18/2006
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Input Set : A:\PTO.kd.txt
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258	790	795	800	
260	agc tcc ttt gag aaa tct gat tct ctc gag cag ccg agt ggc ttg gaa			3345
261	Ser Ser Phe Glu Lys Ser Asp Ser Leu Glu Gln Pro Ser Gly Leu Glu			
262	805	810	815	
264	ggg gaa gac aaa cct ctg gcc cag ttc cca tca ccc cca cct gcc cca			3393
265	Gly Glu Asp Lys Pro Leu Ala Gln Phe Pro Ser Pro Pro Pro Ala Pro			
266	820	825	830	835
268	cac gga cgc tct gct cac tcc ctg cag cct aag ttg gtc cgc cag ccc			3441
269	His Gly Arg Ser Ala His Ser Leu Gln Pro Lys Leu Val Arg Gln Pro			
270	840	845	850	
272	aac att cag gtt cct gag atc cta gta act gag gag cct gac cgg ccc			3489
273	Asn Ile Gln Val Pro Glu Ile Leu Val Thr Glu Glu Pro Asp Arg Pro			
274	855	860	865	
276	gac aca gag cca gag ccg ccc cct aag gaa cct gag aag act gag gag			3537
277	Asp Thr Glu Pro Glu Pro Pro Lys Glu Pro Glu Lys Thr Glu Glu			
278	870	875	880	
280	ttc caa tgg ccc cag cgc agc cag aca ctt gcc cag ctc cca gct gag			3585
281	Phe Gln Trp Pro Gln Arg Ser Gln Thr Leu Ala Gln Leu Pro Ala Glu			
282	885	890	895	
284	aag gct cca ccc aaa aag aag agg ttg cgc ctg gca gag atg gcc caa			3633
285	Lys Ala Pro Pro Lys Lys Arg Leu Arg Leu Ala Glu Met Ala Gln			
286	900	905	910	915
288	tca tca ggg gag tcc agc ttc gag tcc tct gtg cct ctg tct cgc agc			3681
289	Ser Ser Gly Glu Ser Ser Phe Glu Ser Ser Val Pro Leu Ser Arg Ser			
290	920	925	930	
292	ccg agc cag gaa agc aat gtc tct ttg agt ggg tcc agc cgc tca gcc			3729
293	Pro Ser Gln Glu Ser Asn Val Ser Leu Ser Gly Ser Ser Arg Ser Ala			
294	935	940	945	
298	tcg ttt gag agg gat gac cat ggg aaa gcc gag gcc ccc gat ccc tca			3777
299	Ser Phe Glu Arg Asp Asp His Gly Lys Ala Glu Ala Pro Asp Pro Ser			
300	950	955	960	
302	tct gac atg cgc ccc aaa ccc ctg ggc acc cac atg ttg act gtc ccc			3825
303	Ser Asp Met Arg Pro Lys Pro Leu Gly Thr His Met Leu Thr Val Pro			
304	965	970	975	
306	agc cac cac cca cat gcc cga gag atg cgg agg tca gcc tca gag cag			3873
307	Ser His His Pro His Ala Arg Glu Met Arg Arg Ser Ala Ser Glu Gln			
308	980	985	990	995
310	agc ccc aac gtt tcc cat tct gcc cac atg acc gag aca cgc agc aaa			3921
311	Ser Pro Asn Val Ser His Ser Ala His Met Thr Glu Thr Arg Ser Lys			
312	1000	1005	1010	
314	tcc ttt gac tat ggc agc ttg tcc ttg aca ggc cct tct gct cca gcc			3969
315	Ser Phe Asp Tyr Gly Ser Leu Ser Leu Thr Gly Pro Ser Ala Pro Ala			
316	1015	1020	1025	
318	cca gtg gct cca cca gcc ggg gag gcc ccg cca gag aga aga aaa tgc			4017
319	Pro Val Ala Pro Pro Ala Gly Glu Ala Pro Pro Glu Arg Arg Lys Cys			
320	1030	1035	1040	
322	ttc ttg gtg aga agc ccc tct ctg agc agg cct cca gaa tct gag ttg			4065
323	Phe Leu Val Arg Ser Pro Ser Leu Ser Arg Pro Pro Glu Ser Glu Leu			
324	1045	1050	1055	

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/578,402

DATE: 05/18/2006

TIME: 09:57:14

Input Set : A:\PTO.kd.txt

Output Set: N:\CRF4\05182006\J578402.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,402

DATE: 05/15/2006

TIME: 10:01:30

Input Set : A:\SEQLIST.TXT
 Output Set: N:\CRF4\05152006\J578402.raw

4 <110> APPLICANT: Laurie H. Glimcher and Mohamed OUKKA
 6 <120> TITLE OF INVENTION: METHODS FOR MODULATING AN IMMUNE
 7 RESPONSE BY MODULATING KRC ACTIVITY
 11 <130> FILE REFERENCE: HUI-045CP2US
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/578,402
 C--> 13 <141> CURRENT FILING DATE: 2006-05-03
 13 <150> PRIOR APPLICATION NUMBER: PCT/US2004/036641
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 22 <150> PRIOR APPLICATION NUMBER: 60/288,369
 23 <151> PRIOR FILING DATE: 2003-05-01
 25 <160> NUMBER OF SEQ ID NOS: 8
 27 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply
 Corrected Diskette Needed
 (P9,3)

ERRORED SEQUENCES

1156 <210> SEQ ID NO: 8
 1157 <211> LENGTH: 786
 1158 <212> TYPE: PRT
 1159 <213> ORGANISM: Homo sapiens
 1161 <400> SEQUENCE: 8
 1162 Glu Met Leu Ser Ser Leu Ser Ser Asp Pro Ser Asp Thr Lys Glu Ile
 1163 1 5 10 15
 1164 Pro Pro Leu Pro His Pro Ala Leu Ser His Gly Gln Ala Pro Gly Ser
 1165 20 25 30
 1166 Glu Ala Leu Lys Glu Tyr Pro Gln Pro Ser Gly Lys Pro His Arg Arg
 1167 35 40 45
 1168 Gly Leu Thr Pro Leu Ser Val Lys Lys Glu Asp Ser Lys Glu Gln Pro
 1169 50 55 60
 1170 Asp Leu Pro Ser Leu Ala Pro Pro Ser Ser Leu Pro Leu Ser Glu Thr
 1171 65 70 75 80
 1172 Ser Ser Arg Pro Ala Lys Ser Gln Glu Gly Thr Asp Ser Lys Lys Val
 1173 85 90 95
 1174 Leu Gln Phe Pro Ser Leu His Thr Thr Asn Val Ser Trp Cys Tyr
 1175 100 105 110
 1176 Leu Asn Tyr Ile Lys Pro Asn His Ile Gln His Ala Asp Arg Arg Ser
 1177 115 120 125
 1178 Ser Val Tyr Ala Gly Trp Cys Ile Ser Leu Tyr Asn Pro Asn Leu Pro
 1179 130 135 140

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,402

DATE: 05/15/2006

TIME: 10:01:30

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\05152006\J578402.raw

1180 Gly Val Ser Thr Lys Ala Ala Leu Ser Leu Leu Arg Ser Lys Gln Lys
 1181 145 150 155 160
 1183 Val Ser Lys Glu Thr Tyr Thr Met Ala Thr Ala Pro His Pro Glu Ala
 1184 165 170 175
 1185 Gly Arg Leu Val Pro Ser Ser Ser Arg Lys Pro Arg Met Thr Glu Val
 1186 180 185 190
 1187 His Leu Pro Ser Leu Val Ser Pro Glu Gly Gln Lys Asp Leu Ala Arg
 1188 195 200 205
 1189 Val Glu Lys Glu Glu Glu Arg Arg Gly Glu Pro Glu Glu Asp Ala Pro
 1190 210 215 220
 1191 Ala Ser Gln Arg Gly Glu Pro Ala Arg Ile Lys Ile Phe Glu Gly Gly
 1192 225 230 235 240
 1193 Tyr Lys Ser Asn Glu Glu Tyr Val Tyr Val Arg Gly Arg Gly Arg Gly
 1194 245 250 255
 1195 Lys Tyr Val Cys Glu Glu Cys Gly Ile Arg Cys Lys Lys Pro Ser Met
 1196 260 265 270
 1197 Leu Lys Lys His Ile Arg Thr His Thr Asp Val Arg Pro Tyr Val Cys
 1198 275 280 285
 1199 Lys His Cys His Phe Ala Phe Lys Thr Lys Gly Asn Leu Thr Lys His
 1200 290 295 300
 1201 Met Lys Ser Lys Ala His Ser Lys Lys Cys Gln Glu Thr Gly Val Leu
 1202 305 310 315 320
 1203 Glu Glu Leu Glu Ala Glu Glu Gly Thr Ser Asp Asp Leu Phe Gln Asp
 1204 325 330 335
 1205 Ser Glu Gly Arg Glu Gly Ser Glu Ala Val Glu Glu His Gln Phe Ser
 1206 340 345 350
 1207 Asp Leu Glu Asp Ser Asp Ser Asp Ser Asp Leu Asp Glu Asp Glu Asp
 1208 355 360 365
 1209 Glu Asp Glu Glu Glu Ser Gln Asp Glu Leu Ser Arg Pro Ser Ser Glu
 1210 370 375 380
 1211 Ala Pro Pro Pro Gly Pro Pro His Ala Leu Arg Ala Asp Ser Ser Pro
 1212 385 390 395 400
 1213 Ile Leu Gly Pro Gln Pro Pro Asp Ala Pro Ala Ser Gly Thr Glu Ala
 1214 405 410 415
 1215 Thr Arg Gly Ser Ser Val Ser Glu Ala Glu Arg Leu Thr Ala Ser Ser
 1216 420 425 430
 1217 Cys Ser Met Ser Ser Gln Ser Met Pro Gly Leu Pro Trp Leu Gly Pro
 1218 435 440 445
 1219 Ala Pro Leu Gly Ser Val Glu Lys Asp Thr Gly Ser Ala Leu Ser Tyr
 1220 450 455 460
 1221 Lys Pro Val Ser Pro Arg Arg Pro Trp Ser Pro Ser Lys Glu Ala Gly
 1222 465 470 475 480
 1223 Ser Arg Pro Pro Leu Ala Arg Lys His Ser Leu Thr Lys Asn Asp Ser
 1224 485 490 495
 1225 Ser Pro Gln Arg Cys Ser Pro Ala Arg Glu Pro Gln Ala Ser Ala Pro
 1226 500 505 510
 1227 Ser Pro Pro Gly Leu His Val Asp Pro Gly Arg Gly Met Gly Pro Leu
 1228 515 520 525
 1229 Pro Cys Gly Ser Pro Arg Leu Gln Leu Ser Pro Leu Thr Leu Cys Pro

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/578,402

DATE: 05/15/2006
TIME: 10:01:30

Input Set : A:\SEQLIST.TXT
Output Set: N:\CRF4\05152006\J578402.raw

1230 530 535 540
 1231 Leu Gly Arg Glu Leu Ala Pro Arg Ala His Val Leu Ser Lys Leu Glu
 1232 545 550 555 560
 1233 Gly Thr Thr Asp Pro Gly Leu Pro Arg Tyr Ser Pro Thr Arg Arg Trp
 1234 565 570 575
 1235 Ser Pro Gly Gln Ala Glu Ser Pro Pro Arg Ser Ala Pro Pro Gly Lys
 1236 580 585 590
 1237 Trp Ala Leu Ala Gly Pro Gly Ser Pro Ser Ala Gly Glu His Gly Pro
 1238 595 600 605
 1239 Gly Leu Gly Leu Ala Pro Arg Val Leu Phe Pro Pro Ala Pro Leu Pro
 1240 610 615 620
 1242 His Lys Leu Leu Ser Arg Ser Pro Glu Thr Cys Ala Ser Pro Trp Gln
 1243 625 630 635 640
 1244 Lys Ala Glu Ser Arg Ser Pro Ser Cys Ser Pro Gly Pro Ala His Pro
 1245 645 650 655
 1246 Leu Ser Ser Arg Pro Phe Ser Ala Leu His Asp Phe His Gly His Ile
 1247 660 665 670
 1248 Leu Ala Arg Thr Glu Glu Asn Ile Phe Ser His Leu Pro Leu His Ser
 1249 675 680 685
 1250 Gln His Leu Thr Arg Ala Pro Cys Pro Leu Ile Pro Ile Gly Gly Ile
 1251 690 695 700
 1252 Gln Met Val Gln Ala Arg Pro Gly Ala His Pro Thr Leu Leu Pro Gly
 1253 705 710 715 720
 1254 Pro Thr Ala Ala Trp Val Ser Gly Phe Ser Gly Gly Ser Asp Leu
 1255 725 730 735
 1256 Thr Gly Ala Arg Glu Ala Gln Glu Arg Gly Arg Trp Ser Pro Thr Glu
 1257 740 745 750
 1258 Ser Ser Ser Ala Ser Val Ser Pro Val Ala Lys Val Ser Lys Phe Thr
 1259 755 760 765
 1260 Leu Ser Ser Glu Leu Glu Gly Arg Asp Tyr Pro Lys Glu Arg Glu Arg
 1261 770 775 780
 1262 Thr Gly
 1263 785
 E--> 1265 HUI-045CP2US
 E--> 1272 2

deleted

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/578,402

DATE: 05/15/2006

TIME: 10:01:31

Input Set : A:\SEQLIST.TXT

Output Set: N:\CRF4\05152006\J578402.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1265 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1265 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1272 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:8
L:1272 M:252 E: No. of Seq. differs, <211> LENGTH:Input:786 Found:787 SEQ:8